

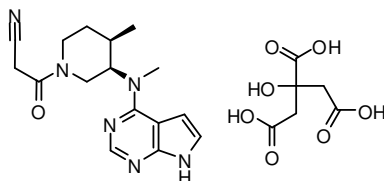


Certificate of Analysis

Axon Catalogue ID: 2072 **Batch Number:** 1
Product Name: Tofacitinib citrate
Alternative Name(s): CP 690550-10
IUPAC Name: 3-((3R,4R)-4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile 2-hydroxypropane-1,2,3-tricarboxylate

Structure:

Amount:



CAS number(s): 477600-75-2 (parent), 540737-29-9 (citrate (1:1))
Molecular Formula: C₁₆H₂₀N₆O₆.C₆H₈O₇ **Molecular Weight:** 504.49
Batch Molecular Formula: C₁₆H₂₀N₆O₆.C₆H₈O₇ **Batch Molecular Weight:** 504.49
Appearance: White solid **Observed mp:** 215 - 217 °C
TLC (R_f): 0.6 DCM/MeOH (9:1)
Chemical Purity: 99.2%
Optical Purity (ee): o.p.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 52.38, H 5.59, N 16.66; Found: C 52.44, H 5.58, N 16.75
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	50.4	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 13-06-2018

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only